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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/714,557	11/14/2003	Martin Stahl	13913-173US1 / 2001P00015	1730
32864	7590	07/12/2007	EXAMINER	
FISH & RICHARDSON, P.C. PO BOX 1022 MINNEAPOLIS, MN 55440-1022			HWANG, JOON H	
		ART UNIT	PAPER NUMBER	
		2166		
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		07/12/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/714,557	STAHL ET AL.	
Examiner	Art Unit		
Joon H. Hwang	2166		

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 22 May 2007.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-22 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 1-22 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to: See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date. _____
3) Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
5) Notice of Informal Patent Application
6) Other: _____

DETAILED ACTION

1. The applicants amended claims 2, 4, 10, 11, 13, and 19 in the amendment filed on 5/22/07.

The claims 1-22 are pending.

Response to Arguments

2. Applicant's arguments with respect to claims 1, 10, 19, and 22 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
4. Claims 1, 5-10, and 14-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Griffin et al. (U.S. Patent No. 6,006,216) in view of Yoda et al. (U.S. Patent No. 6,119,117).

With respect to claim 1, Griffin teaches migrating content from a source table in a source database to a target table in a target database, wherein the databases are physically different (i.e., migrating content from AdminDB to ReadDB, wherein AdminDB utilizes normalized schema and ReadDB utilizes unnormalized schema, and AdminDB and ReadDB reside on different platforms, fig. 2, lines 32-45 in col. 6, and lines 22-39 in col. 7). Griffin teaches storing entries corresponding to database instructions in at least one of the source table and the target table, with a business application consecutively

sending database instructions to the source database before migrating, the business application consecutively sending database instructions to the target database after migrating, each entry in each table having a unique key, and the database instructions having action types (line 64 in col. 3 thru line 11 in col. 4, line 7 in col. 6 thru line 8 in col. 7, fig. 2, fig. 10, and fig. 14). Griffin teaches storing representations, for at least one entry in the source table, of the action type and of the unique key in a log table under the condition that the action type coincides with a predetermined action type (i.e., generation of delta, line 64 in col. 3 thru line 11 in col. 4, line 7 in col. 6 thru line 8 in col. 7, fig. 2, fig. 10, and fig. 14; wherein the deltas may be any of various different forms as in the prior art, lines 63-64 in col. 6, which teaches the deltas can be in form of a table as well known in the art (i.e., information is structured in tables), line 52 in col. 3; the deltas teach a log of changes, line 64 in col. 3 thru line 11 in col. 4 and lines 1-3 in col. 7; an action type in the delta (i.e., "+" for add, "-" for delete, and "mod" for update), lines 24-36 in col. 11; a unique key in the delta (i.e., tuples including ID key, such as item 103 in fig. 10), lines 24-36 in col. 11 and fig. 14; the deltas include update transactions, such as add, delete, and update, lines 24-36 in col. 11, thus the condition would be every update transactions). Griffin teaches copying entries of the source table to the target table (line 64 in col. 3 thru line 11 in col. 4, line 7 in col. 6 thru line 8 in col. 7, fig. 2, fig. 10, and fig. 14). Griffin teaches adjusting the entries in the target table that have keys represented in the log table according to the action type representation stored in the log table (i.e., entries in ReadDB table are copied and adjusted, line 64 in col. 3 thru line 11 in col. 4, line 7 in col. 6 thru line 8 in col. 7, fig. 2, fig. 10, and fig. 14). Yoda also

teaches storing representations of the action type and of the unique key in a log table under the condition that the action type coincides with a predetermined action type (i.e., specifying an operation type to be targeted to selectively acquire the journal of operations, lines 44-46 in col. 3, lines 12-19 in col. 12, and lines 1-6 in col. 18) in order to monitor specific data operations. Therefore, based on Griffin in view of Yoda, it would have been obvious to one having ordinary skill in the art at the time the invention was made to utilize the teaching of Yoda to the system of Griffin in order to monitor specific data operations.

With respect to claim 5, Griffin teaches adjusting the entries is performed in a first adjustment period while the application is sending database instructions and in a second adjustment period while the application is not sending database instructions (line 52 in col. 6 thru line 8 in col. 7).

With respect to claim 6, Griffin teaches the predetermined action types are selected from the group consisting of insert, delete, and update (line 52 in col. 6 thru line 8 in col. 7).

With respect to claim 7, Griffin teaches the database instructions are SQL statements (lines 11-25 in col. 10).

With respect to claim 8, Griffin teaches adjusting the entries comprises adjusting a first portion of the source table with a first portion of the target table substantially in parallel with adjusting a second portion of the source table with a second portion of the target table (i.e., handling multiple transactions concurrently, lines 31-35 in col. 1 and line 52 in col. 6 thru line 8 in col. 7).

With respect to claim 9, Griffin teaches copying entries comprises copying a first portion of the source table to a first portion of the target table substantially in parallel with copying a second portion of the source table to a second portion of the target table (i.e., handling multiple transactions concurrently, lines 31-35 in col. 1 and line 52 in col. 6 thru line 8 in col. 7).

The limitations of claims 10, 19, and 22 are rejected in the analysis of claim 1 above, and these claims are rejected on that basis.

The limitations of claims 14 and 20 are rejected in the analysis of claim 5 above, and these claims are rejected on that basis.

The limitations of claim 15 are rejected in the analysis of claim 6 above, and the claim is rejected on that basis.

The limitations of claim 16 are rejected in the analysis of claim 7 above, and the claim is rejected on that basis.

The limitations of claims 17 and 21 are rejected in the analysis of claim 8 above, and these claims are rejected on that basis.

The limitations of claim 18 are rejected in the analysis of claim 9 above, and the claim is rejected on that basis.

5. Claims 2-4 and 11-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Griffin et al. (U.S. Patent No. 6,006,216) in view of Yoda et al. (U.S. Patent No. 6,119,117), and further in view of Nowlin, Jr. et al. (U.S. Patent No. 6,484,309).

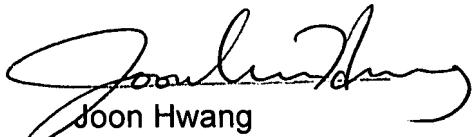
With respect to claims 2-4, Griffin and Yoda disclose the claimed subject matter as discussed above except converting the coding of the entry. However, Nowlin teaches converting the coding of data from ASCII-code to Unicode (lines 19-33 in col. 3 and lines 42-51 in col. 4) in order to transfer the data to a system that uses only Unicode strings which are 16 bits per character. Therefore, based on Griffin in view of Yoda, and further in view of Nowlin, it would have been obvious to one having ordinary skill in the art at the time the invention was made to utilize the teaching of Nowlin to the system of Griffin in order to transfer the data to a system that uses only Unicode strings which are 16 bits per character.

The limitations of claims 11-13 are rejected in the analysis of claims 2-4 above, and these claims are rejected on that basis.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joon H. Hwang whose telephone number is 571-272-4036. The examiner can normally be reached on 9:30-6:00(M~F).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hosain T. Alam can be reached on 571-272-3978. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Joon Hwang
Patent Examiner
Technology Center 2100

7/6/2007